INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JP2004/010339
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ F04B43/04		
According to International Patent Classification (IPC) or to both nation	nal classification and IPC	
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by control of the searched (classification system)).	classification symbols)	,
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Kokai Jitsuyo Shinan Koho 1971-2004 T	itsuyo Shinan Torok oroku Jitsuyo Shinar	1 Koho 1996-2004 n Koho 1994-2004
Electronic data base consulted during the international search (name of	f data base and, where practical	ble, search terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where a	ppropriate, of the relevant pass	sages Relevant to claim No.
Y JP 2671412 B2 (NEC Corp.), 11 July, 1997 (11.07.97), Fig. 8 (Family: none)		1-7,10-13
Y JP 6-56150 B2 (Kyushu Hitach Kaisha), 27 July, 1994 (27.07.94), Column 4, line 32 to column (Family: none)		ki 1-7,10-13
Further documents are listed in the continuation of Box C.	See patent family ann	ex.
Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	ited documents: Ite general state of the art which is not considered vance To attent but published on or after the international invention and the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"L" document which may throw doubts on priority claim(s) or which is		
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search 12 October, 2004 (12.10.04)	Date of mailing of the intem 26 October,	ational search report 2004 (26.10.04)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer	
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International application No.
PCT/JP2004/010339

		FCI/UFZ	004/010339 .
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Y .	Microfilm of the specification and drawing annexed to the request of Japanese Utility Model Application No. 138685/1984(Laid-op No. 54566/1986) (Toshiba Corp.), 12 April, 1986 (12.04.86), Fig. 1 (Family: none)	:y	1-7,10-13
• Ү	US 6520753 B1 (CALIFORNIA INSTITUTE OF TECHNOLOGY), 18 February, 2003 (18.02.03), Figs. 1 to 2 (Family: none)		5-7,10-13
Y	JP 2000-87862 A (Citizen Watch Co., Ltd. 28 March, 2000 (28.03.00), Par. Nos. [0016] to [0024]; Fig. 1 (Family: none)),	7,10-13
Y	JP 2003-120548 A (Matsushita Electric Industrial Co., Ltd.), 23 April, 2003 (23.04.03), Par. Nos. [0053] to [0062]; Fig. 4 & US 2003/0017063 A1 & EP 1277957 A2		10-13
A	WO 2001/066947 A1 (Hitachi, Ltd.), 13 September, 2001 (13.09.01), (Family: none)		5-7,10-13